PATENT COOPERATION TREATY

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	From the INTERNATIONAL BUREAU					
PCT	То:					
NOTIFICATION OF ELECTION (PCT Rule 61.2)	United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ETATS-UNIS D'AMERIQUE					
Date of mailing (day/month/year) 08 July 1998 (08.07.98)	in its capacity as elected Office					
International application No. PCT/US97/15856	Applicant's or agent's file reference ASCOP039WO					
International filing date (day/month/year) 07 November 1997 (07.11.97)	Priority date (day/month/year) 07 November 1996 (07.11.96)					
Applicant CONVARTA Debat stall						
SCHWARTZ, Robert et al						
1. The designated Office is hereby notified of its election made: X In the demand filed with the International Preliminary Examining Authority on: 02 June 1998 (02.06.98) In a notice effecting later election filed with the International Bureau on: 2. The election X was						
made before the expiration of 19 months from the priority Rule 32.2(b).	date or, where Rule 32 applies, within the time limit under					

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

N. Fischer

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference ASCOP039WO	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/mo	nth/year) Priority date (day/month/year)					
PCT/US97/15856	07 NOVEMBER 1997	07 NOVEMBER 1996					
International Patent Classification (IPC) of IPC(6): G07B 17/04; H04L 9/00 and Applicant	or national classification and IPC US Cl.: 705/405; 380/23, 51,	55					
ASCOM HASLER MAILING SYSTEMS INC.							
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of a							
been amended and are the (see Rule 70.16 and Sec	ne basis for this report and/or she tion 607 of the Administrative	ts of the description, claims and/or drawings which have tets containing rectifications made before this Authority. Instructions under the PCT).					
These annexes consist of a t	otal of <u>///</u> sheets.						
3. This report contains indicatio	ns relating to the following it	ems:					
I X Basis of the repo	ort .						
II Priority							
III Non-establishme	nt of report with regard to no	velty, inventive step or industrial applicability					
IV Lack of unity of		1					
V X Reasoned statement citations and expl	ent under Article 35(2) with reg lanations supporting such statem	ard to novelty, inventive step or industrial applicability; nent					
VI X Certain document	s cited						
VII Certain defects in	the international application						
VIII Certain observation	ons on the international applicat	ion					
		• •					
		~ ·					
	-						
Date of submission of the demand	Date	e of completion of this report					
02 JUNE 1998		02 MARCH 1999					
Name and mailing address of the IPEA		norized officer					
Commissioner of Patents and Trad Box PCT Washington, D.C. 20231	emarks .	GAIL HAYES Dian Smtt f					
Facsimile No. (703) 305-3230	5	phone No. (703) 305-1836					

International application No.
PCT/US97/15856

L. Basis f th report	
1. This report has been drawn on the basis of Substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments):	
x the international application as originally filed.	
X the description, pages 1-11 , as originally filed.	l
pages NONE , filed with the demand.	-
pages NONE , filed with the letter of	ļ
pages, filed with the letter of	
x the claims, Nos. 1-11 , as originally filed.	
Nos. NONE , as amended under Article 19.	
Nos. NONE , filed with the demand.	
Nos. NONE , filed with the letter of	
Nos, filed with the letter of	
X the drawings, sheets/fig 1-3, as originally filed.	
sheets/fig NONE , filed with the demand.	
sheets/ fig NONE , filed with the letter of	
sheets/fig, filed with the letter of	
x the description, pages NONE NONE NONE	
X the claims, Nos.	
X the drawings, sheets/tig NONE	
This report has been established as if (some of) the amendments had not been made, since they have been consider to go beyond the disclosure as filed, as indicated in the Supplemental Box Additional observations below (Rule 70.2).	ed (c)).
4. Additional observations, if necessary:	
NONE	
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1	

International application No.

PCT/US97/15856

v.	Reas citati	oned statem nt under Articl 35(ons and xplanati ns supporting	2) with rega su h statem	rd t n velty, inv ntive st p or industrial applicablent	lity;
1.	STA	TEMENT			
	N	lovelty (N)	Claims	3-6, 8, and 11	YES
	•	ictory (14)	Claims	1, 2, 7, 9, and 10	NO
	T:	nventive Step (IS)	Claims	NONE	YES
	-	avonave sup (15)	Claims	1-11	NO
	Ŀ	ndustrial Applicability (IA)	Claims	1-11 NOVE	_ YES
			- Claims	NONE	_ NO
	(2)	[hereinafter Fougere]. See, e.g, Fig. Claims 3-6, 8, and 11 lack	4 and its acco	p under PCT Article 33(3) because it is obvious to a person	skilled
	(3)	in the art over Fougere in view of l	Pintsov, further	in view of any of Usui, Dawson, Dolphin, and Matsumoto	
		Fougere teaches all of the algorithms, (2) monitoring the time	he limitations taken to comp	of the claims except for teaching (1) using signature an elete a transaction, and (3) all in a PCMCIA environment.	d hash
		Pintsov teaches calculating the authenticity of postage accounting		ature (which includes calculating a hash, see, e.g., Fig. 2) to ding the motivation to combine).	assure
		column 15), Dolphin (see, e.g., lines	s 41-56 of colu	e 3 of column 6), Dawson (see, line 55 of column 14 to lin imn 5), Matsumoto (see, e.g., claims 7 and 16) all teach mo- bit unauthorized processing (providing the motivation to con-	nitoring
	(4)	Claims 7 and 9 lack novel front page of Piosenka.	ty under PCT	Article 33(2) because they are anticipated by Piosenkat. See,	e.g, the
	(Conti	nued on Supplemental Sheet.)			

International application No.

PCT/US97/15856

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1. C rtain publish d documents (Rule 70.10)

Application No. Patent No. Publication Date (day/month/year)

Filing Date (day/month/year)

Priority date (valid claim) (day/month/year)

US, A, 5,590,198 US, A, 5,688,056 31 DECEMBER 1996 18 NOVEMBER 1997 19 DECEMBER 1995 14 JUNE 1994

14 JUNE 1994

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)

International application No.

PCT/US97/15856

Supple	m nt	al B x
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(To be used when the space in any of the pr ceding boxes is not sufficient)

Continuati n of: Boxes I - VIII

Sheet 10

- V. 2. REASONED STATEMENTS CITATIONS AND EXPLANATIONS (Continued):
- (5) Claim 10 lacks novelty under PCT Article 33(2) because it is anticipated by any of Usui (see, e.g., line 5 of column 5 to line 3 of column 6), Dawson (see, line 55 of column 14 to line 38 of column 15), Dolphin (see, e.g., lines 41-56 of column 5), Matsumoto (see, e.g., claims 7 and 16).
- (6) Claims 1-11 all meet the industrial applicability requirement.

----- NEW CITATIONS -----

US 4,743,747 A (FOUGERE et al.) 10 MAY 1988 (10.05.88), see the whole document.

US 5,389,738 A (PIOSENKA et al.) 14 FEBRUARY 1995 (14.02 95), see the whole document.

US 5,517,184 A (DAWSON et al.) 14 MAY 1996 (14.05.96), see the whole document.

US 5,457,746 A (DOLPHIN) 10 OCTOBER 1995 (10.10.95), see the whole document.

US 5,343,025 A (USUI) 30 AUGUST 1994 (30.08.94), see the whole document.

US 5,218,613 A (MATSUMOTO et al.) 08 JUNE 1993 (08.06.93), see the whole document.



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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(11) International Publication Number:

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A2

(43) International Publication Date:

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(30) Priority Data:

60/030,537 60/050,043 60/054,105 7 November 1996 (07.11.96) US 18 June 1997 (18.06.97) US 29 July 1997 (29.07.97) US

29 July 1997 (29.07.97) US

(71) Applicant (for all designated States except US): ASCOM HASLER MAILING SYSTEMS, INC. [US/US]; 19 Forest Parkway, Shelton, CT 06484 (US).

(72) Inventors; and

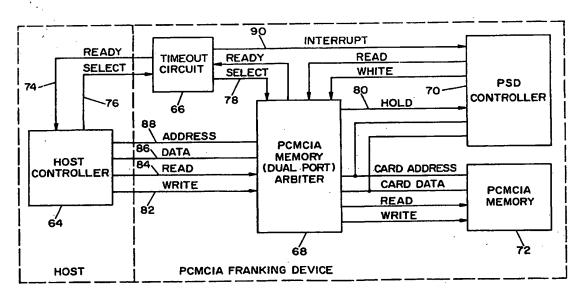
- (75) Inventors/Applicants (for US only): SCHWARTZ, Robert [US/US]; 191 Linden Avenue, Branford, CT 06405 (US). BROOKNER, George [US/US]; 11 Surrey Drive, Norwalk, CT 06851 (US). NACLERIO, Edward [US/US]; 49 Scenic Road, Madison, CT 06443-1738 (US).
- (74) Agent: FERENCE, Stanley, D., III; Oppedahl & Larson, Suite 309, 1992 Commerce Street, Yorktown Heights, NY 10598-4412 (US).

(81) Designated States: CA, JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

Without international search report and to be republished upon receipt of that report.

(54) Title: SYSTEM FOR PROTECTING CRYPTOGRAPHIC PROCESSING AND MEMORY RESOURCES FOR POSTAL FRANK-ING MACHINES



(57) Abstract

An improved system for protecting cryptographic processing and memory for postal franking machines. Appropriate cryptographic processing and memory resources are contained in a Postal Security Device (PSD), which defines a cryptographic and physical boundary. Cryptographic processing occurs in the PSD, which provides security to these resources, thereby minimizing a successful fraudulent attack on the system. Speed of the cryptographic processing is also increased. The PSD may be in the form of an Applications Specific Integrated Circuit (ASIC) or Personal Computer Memory Card International Association (PCMCIA) Card.

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:		(11) International Publication Number:	WO 98/20461
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(21) International Application Number: PCT/US97/15856

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(30) Priority Data:
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7 November 1996 (07.11.96)
US

60/050,043 18 June 1997 (18.06.97) US 60/054,105 29 July 1997 (29.07.97) US

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(72) Inventors; and

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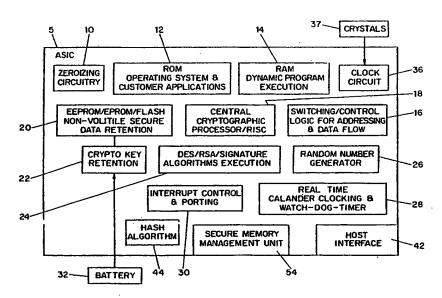
Published

With international search report.

(88) Date of publication of the international search report:

8 October 1998 (08.10.98)

(54) Title: SYSTEM FOR PROTECTING CRYPTOGRAPHIC PROCESSING AND MEMORY RESOURCES FOR POSTAL FRANK-ING MACHINES



(57) Abstract

An improved system for protecting cryptographic processing and memory for postal franking machines. Appropriate cryptographic processing and memory resources are contained in a Postal Security Device (PSD) (5), which defines a cryptographic and physical boundary. Cryptographic processing (18) occurs in the PSD, which provides security to these resources, thereby minimizing a successful fraudulent attack on the system. Speed of the cryptographic processing is also increased. The PSD may be in the form of an Applications Specific Integrated Circuit (ASIC) or Personal Computer Memory Card International Association (PCMCIA) Card.

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US97/15856

	SSIFICATION OF SUBJECT MATTER						
4	:H04L 9/00 :380/51, 23, 50						
	to International Patent Classification (IPC) or to both	national classification and IPC					
	DS SEARCHED ocumentation searched (classification system followe	d by classification symbols)	<u> </u>				
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Documenta	tion searched other than minimum documentation to the	e extent that such documents are included	in the fields searched				
Electronic	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
c. Doc	UMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
A	US 4,934,846 A (GILHAM) 19 June	1990	1-11				
A, P	US 5,602,921 A (RAMADEI) 11 Feb	ruary, 1997	1-11				
A, P	US 5,682,427 A (SEESTROM) 28 Oc	tober 1997	1-11				
A	US 5,448,641 A (PINTSOV, et al.) 0:	5 September 1995	1-11				
A	US 5,535,279 A (SEESTROM) 09 Jul	у 1996	1-11				
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Furth	ner documents are listed in the continuation of Box C	. See patent family annex.					
·A• do	ecial entegories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	"T" later document published after the int date and not in conflict with the app the principle or theory underlying the	lication but cited to understand				
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22 APRII	22 APRIL 1998 14 MAY 1998						
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